

SEQUENCE LISTING

<110> Nguyen, Thai D.
 Polansky, Jon R.
 Chen, Pu
 Chen, Hua



<120> Nucleic Acids, Kits, And Methods For The Diagnosis, Prognosis And Treatment Of Glaucoma And Related Disorders

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<140> US 09/227,881
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<150> US 08/938,669
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<211> 926

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 178

<212> PRT

<213> Homo sapiens

<400> 27

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Glu Lys Glu Ile Pro Gly Ala Gly Tyr His Gly Gln Phe Pro Tyr Ser
35 40 45
Trp Gly Gly Tyr Thr Asp Ile Asp Leu Ala Val Asp Glu Ala Gly Leu
50 55 60
Trp Val Ile Tyr Ser Thr Asp Glu Ala Lys Gly Ala Ile Val Leu Ser
65 70 75 80
Lys Leu Asn Pro Glu Asn Leu Glu Leu Glu Gln Thr Trp Glu Thr Asn
85 90 95
Ile Arg Lys Gln Ser Val Ala Asn Ala Phe Ile Ile Cys Gly Thr Leu
100 105 110
Tyr Thr Val Ser Ser Tyr Thr Ser Ala Asp Ala Thr Val Asn Phe Ala
115 120 125
Tyr Asp Thr Gly Thr Gly Ile Ser Lys Thr Leu Thr Ile Pro Phe Lys
130 135 140
Asn Arg Tyr Lys Tyr Ser Ser Met Ile Asp Tyr Asn Pro Leu Glu Lys
145 150 155 160
Lys Leu Phe Ala Trp Asp Asn Leu Asn Met Val Thr Tyr Asp Ile Lys
165 170 175
Leu Ser

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<210> 28

<211> 131

<212> PRT

<213> Homo sapiens

<400> 28

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Asp Ile Asp Leu Met Val Asp Glu Ser Gly Leu Trp Ala Val Tyr Ala
35 40 45

Thr Asn Gln Asn Ala Gly Asn Ile Val Val Ser Arg Leu Asp Pro Val
50 55 60
Ser Leu Gln Thr Leu Gln Thr Trp Asn Thr Ser Tyr Pro Lys Arg Xaa
65 70 75 80
Pro Gly Xaa Ala Phe Ile Ile Cys Gly Thr Cys Tyr Val Thr Asn Gly
85 90 95
Tyr Ser Gly Gly Thr Lys Val His Tyr Ala Tyr Gln Thr Asn Ala Ser
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Thr Tyr Glu Tyr Ile Asp Ile Pro Phe Gln Asn Lys Leu Xaa Pro His
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Phe Pro Cys
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<211> 178

<212> PRT

<213> Rattus norvegicus

<400> 29

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Lys Thr Arg Ser Leu Asp Tyr Ala Gly Tyr Asn Asn Met Tyr His Tyr
35 40 45
Ala Trp Gly Gly His Ser Asp Ile Asp Leu Met Val Asp Glu Asn Gly
50 55 60
Leu Trp Ala Val Tyr Ala Thr Asn Gln Asn Ala Gly Asn Ile Val Ile
65 70 75 80
Ser Lys Leu Asp Pro Val Ser Leu Gln Ile Leu Gln Thr Trp Asn Thr
85 90 95
Ser Tyr Pro Lys Arg Ser Ala Gly Glu Ala Phe Ile Ile Cys Gly Thr
100 105 110
Leu Tyr Val Thr Asn Gly Tyr Ser Gly Gly Thr Lys Val His Tyr Ala
115 120 125
Tyr Gln Thr Asn Ala Ser Thr Tyr Glu Tyr Ile Asp Ile Pro Phe Gln
130 135 140
Asn Lys Tyr Ser His Ile Ser Met Leu Asp Tyr Asn Pro Lys Asp Arg
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Leu Phe

<210> 30

<211> 177

<212> PRT

<213> Rana catesbeiana

<400> 30

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20 25 30

Lys Lys Pro Leu Leu Asn Ala Leu Phe Asn Asn Arg Phe Ser Tyr Ala
35 40 45

Gly Thr Met Phe Gln Asp Met Asp Phe Ser Ser Asp Glu Lys Gly Leu
50 55 60

Trp Val Ile Phe Thr Thr Glu Lys Ser Ala Gly Lys Ile Val Val Gly
65 70 75 80

Lys Val Asn Val Ala Thr Phe Thr Val Asp Asn Ile Trp Ile Thr Thr
85 90 95

Gln Asn Lys Ser Asp Ala Ser Asn Ala Phe Met Ile Cys Gly Val Leu
100 105 110

Tyr Val Thr Arg Ser Leu Gly Pro Lys Met Glu Glu Val Phe Tyr Met
115 120 125

Phe Asp Thr Lys Thr Gly Lys Glu Gly His Leu Ser Ile Met Met Glu
130 135 140

Lys Met Ala Glu Lys Val His Ser Leu Ser Tyr Asn Ser Asn Asp Arg
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Lys Leu Tyr Met Phe Ser Glu Gly Tyr Leu Leu His Tyr Asp Ile Ala
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Leu

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<211> 74

<212> PRT

<213> Artificial sequence

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<223> Consensus homology of SEQ ID NO: 27, 28, 29 and 30

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20 25 30

Thr Ala Gly Ile Val Ser Lys Leu Pro Leu Gln Thr Trp Thr Lys Ala
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Phe Ile Ile Cys Gly Thr Leu Tyr Val Thr Tyr Val Tyr Ala Tyr Thr
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Ile Tyr Asp Tyr Asn Pro Lys Leu Tyr Leu
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<210> 32

<211> 504

<212> PRT

<213> Homo sapiens

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20 25 30

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35 40 45
 Tyr Thr Phe Ser Val Ala Ser Pro Asn Glu Ser Ser Cys Pro Glu Gln
 50 55 60
 Ser Gln Ala Met Ser Val Ile His Asn Leu Gln Arg Asp Ser Ser Thr
 65 70 75 80
 Gln Arg Leu Asp Leu Glu Ala Thr Lys Ala Arg Leu Ser Ser Leu Glu
 85 90 95
 Ser Leu Leu His Gln Leu Thr Leu Asp Gln Ala Ala Arg Pro Gln Glu
 100 105 110
 Thr Gln Glu Gly Leu Gln Arg Glu Leu Gly Thr Leu Arg Arg Glu Arg
 115 120 125
 Asp Gln Leu Glu Thr Gln Thr Arg Glu Leu Glu Thr Ala Tyr Ser Asn
 130 135 140
 Leu Leu Arg Asp Lys Ser Val Leu Glu Glu Lys Lys Arg Leu Arg
 145 150 155 160
 Gln Glu Asn Glu Asn Leu Ala Arg Arg Leu Glu Ser Ser Ser Gln Glu
 165 170 175
 Val Ala Arg Leu Arg Arg Gly Gln Cys Pro Gln Thr Arg Asp Thr Ala
 180 185 190
 Arg Ala Val Pro Pro Gly Ser Arg Glu Val Ser Thr Trp Asn Leu Asp
 195 200 205
 Thr Leu Ala Phe Gln Glu Leu Lys Ser Glu Leu Thr Glu Val Pro Ala
 210 215 220
 Ser Arg Ile Leu Lys Glu Ser Pro Ser Gly Tyr Leu Arg Ser Gly Glu
 225 230 235 240
 Gly Asp Thr Gly Cys Gly Glu Leu Val Trp Val Gly Glu Pro Leu Thr
 245 250 255
 Leu Arg Thr Ala Glu Thr Ile Thr Gly Lys Tyr Gly Val Trp Met Arg
 260 265 270
 Asp Pro Lys Pro Thr Tyr Pro Tyr Thr Gln Glu Thr Thr Trp Arg Ile
 275 280 285
 Asp Thr Val Gly Thr Asp Val Arg Gln Val Phe Glu Tyr Asp Leu Ile
 290 295 300
 Ser Gln Phe Met Gln Gly Tyr Pro Ser Lys Val His Ile Leu Pro Arg
 305 310 315 320
 Pro Leu Glu Ser Thr Gly Ala Val Val Tyr Ser Gly Ser Leu Tyr Phe
 325 330 335
 Gln Gly Ala Glu Ser Arg Thr Val Ile Arg Tyr Glu Leu Asn Thr Glu
 340 345 350
 Thr Val Lys Ala Glu Lys Glu Ile Pro Gly Ala Gly Tyr His Gly Gln
 355 360 365
 Phe Pro Tyr Ser Trp Gly Gly Tyr Thr Asp Ile Asp Leu Ala Val Asp
 370 375 380
 Glu Ala Gly Leu Trp Val Ile Tyr Ser Thr Asp Glu Ala Lys Gly Ala
 385 390 395 400
 Ile Val Leu Ser Lys Leu Asn Pro Glu Asn Leu Glu Leu Glu Gln Thr
 405 410 415
 Trp Glu Thr Asn Ile Arg Lys Gln Ser Val Ala Asn Ala Phe Ile Ile
 420 425 430
 Cys Gly Thr Leu Tyr Thr Val Ser Ser Tyr Thr Ser Ala Asp Ala Thr
 435 440 445
 Val Asn Phe Ala Tyr Asp Thr Gly Thr Gly Ile Ser Lys Thr Leu Thr

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Tyr Asp Ile Lys Leu Ser Lys Met		
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<212> DNA

<213> Homo sapiens

<400> 33

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<210> 34

<211> 5271

<212> DNA

<213> Homo sapiens

<400> 34

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